

Interior Catwalk

Sections-

 $1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{1}{4}$ " Square steel tubing (Typ.)

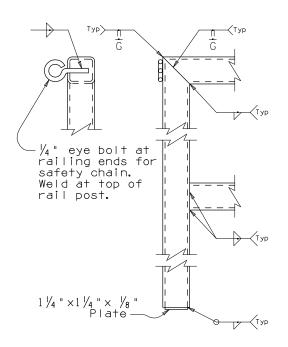
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1'-8 //4

DMS TUBULAR FRAME CAMBER (INCHES)								
Frame Type	2F	2F	3F	3F	3F	4F	4F	4F
Span	56'-0	70'-0	82'-0	94'-0	106'-0	118'-0	130'-0	142'-0
" X"	1 "	1 1/2 "	1 3/4 "	2 1/2 "	3 1/2 "	4"	6"	7¾ "
" Y"	1 1/4 "	2"	2 1/4 "	3 1/2 "	43/4 "	6"	8 1/4 "	111/4"

Calculated camber provides for deflections due to dead load of tubular structure and dead loads of DMS cabinet, catwalks and attachments. For spans other than shown, interpolate for "X" and "Y" dimensions.

See SD 9.20 (3 of 5) for CAMBER DIAGRAM and camber notes.



HANDRAIL WELD DETAILS

NOTES:

Handrails shall extend from end of DMS cabinet to mast arm field splice as shown for both catwalks. Maximum support post spacing shall be 4'-4. Minimum support post spacing shall be 1'-10. Maximum three spaces per rail section. Minimum two support posts per rail section. Minimum catwalk length = 5'-7.

Handrail to be $1/\!\!/_2$ " x $1/\!\!/_2$ " x $\%_4$ " square steel tubing weighing 2.70 plf.

Provide eye bolts at ends of top handrails for $\frac{1}{6}$ " galvanized safety chain with (1) $\frac{1}{4}$ " snap hook per catwalk end.

Provide $\frac{5}{8}$ " Φ holes for $\frac{1}{2}$ " Φ pivot bolts and $\frac{3}{8}$ " Φ holes for $\frac{1}{4}$ " Φ lock bolts.

See SD 9.52 (5 of 5) for inside handrails, grating and toeboard details.

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APPROVED FOR DISTRIBUTION Tean A. Nehme		DYNAMIC MESSAGE SIGN CATWALK HANDRAIL DETAILS					
ROUTE	PROJECT NO.	FA NO. SD 9.52 (4 of 5)					
LOCATION		SHEET NO.					

LI

Mast Arm

Field Splice